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ABSTRACT

This cumulative report serves to keep a record of University of Guam Learning Resources (LR) activities, identify milestones in LR's history, review LR's past progress, and on the basis of the review results, plan for the future. It contains five major sections: "List of LR Administrators"; "List of Important LR Activities"; "Essential Statistics"; "Statistical Implications"; and "Current Faculty Publications Related to Guam, Micronesia, and the Pacific." The data was collected from LR annual reports, university catalogs, and other sources available in the LR Dean's office. The report's coverage is limited to activities that have been recorded in the available sources, and no extended research was conducted. In the LR activities section, events and information are arranged chronologically when dates are available. Enrollment, budget, collections and services data are presented in five tables and seven graphs in the statistical section. Twenty-three faculty publications dealing specifically with Guam, Micronesia and the Pacific are listed in the publications section. (MAS)

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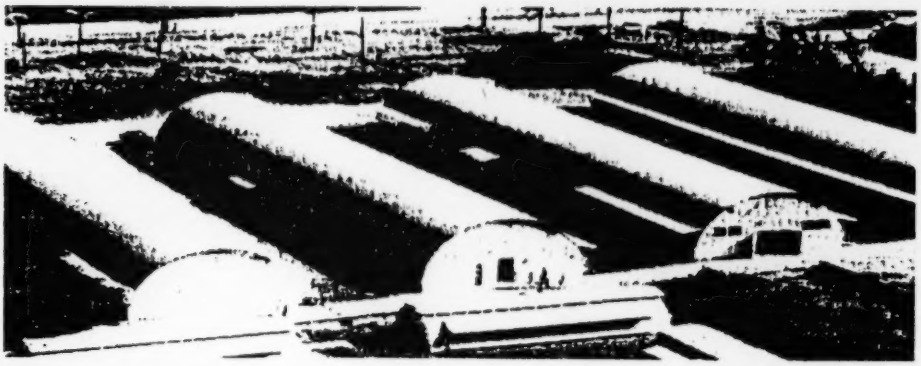
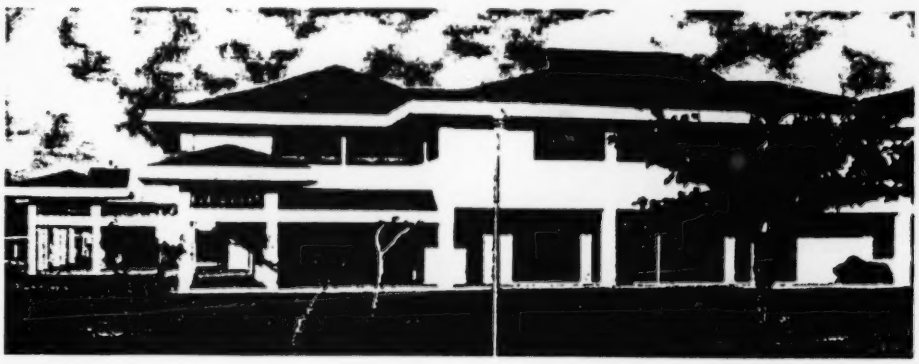


UNIVERSITY OF GUAM LEARNING RESOURCES
Cumulative Report 1952-94



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UNIVERSITY OF GUAM LEARNING RESOURCES (LR)
Cumulative Report, 1952-94

Chih Wang, Ph. D.
Dean & Professor

February 1, 1995

Introduction

This cumulative report contains five major sections: List of LR Administrators, List of Important LR Activities, Essential Statistics, Statistical Implications, and current Faculty Publications related to Guam, Micronesia, and the Pacific. The data are collected from LR annual reports, university catalogs, and other sources available in the LR Dean's office. The report only covers the activities that have been recorded in the available sources. No attempt is made to do extended research for the report.

The data are arranged chronologically if the dates are available. In publications section, cited are only those works related to Guam, Micronesia, and the Pacific and published by the faculty members currently with LR. Other works of these faculty are omitted. The report serves the purpose of keeping a record of LR activities. It may help identify certain milestones of LR history. It may be used to review LR's progress in the past; and on the basis of the review results, future plans of development can be constructed. The report certainly provides researchers and professionals who may need information on library development in the Pacific region.

List of LR Administrators

1963-65 Corazon P. Salazar, B.S.E., Acting Chairman, Division of Library Facilities

1965-66 Magdalena S. Taitano, Division Chairman, Library and Learning Aids

1967-68 Martha C. Houk, M.S., Assistant Professor of Library Science. (No administrator is listed)

1968-69 William Cadier, MALS, Director of Library Services.

1970-72 Kenneth L. Carriveau, MLS, Vice President for Information Resources and Retrieval

1972-73 Myra P. Wooldridge, Acting Dean, Library Services

1973-75 Floyd M. Camack, Ph.D., Dean, Library and Media Services.

1976-80 Kenneth L. Carriveau, Ph.D., Dean, Library Services

1980-82 D. Joleen Bock, Ed.D., Dean, Library Services

1985-89 Harry Y. Uyehara, Ed.D., Dean, Learning Resources

1989- Chih Wang, Ph.D., Dean, Learning Resources

List of Important Activities

June, 1952:

The library established and housed in an abandoned World War II military Quonset hut in Mongmong when the Territorial College of Guam founded. The initial collection of 200 volumes consisted mainly donations from military and public libraries on Guam.

1960:

The library moved to the current campus when the college moved to Mangilao. The new facility had a capacity of 88 reading seats and shelving space for 20,000 volumes.

1967:

A new and larger library building constructed at the present site.

1968:

The new building named as the Robert F. Kennedy Memorial Library by a decree from the Guam Legislature.

FY 1973-74:

1. Associate Dean's position established.
2. Student Library Committee formed.
3. Faculty Library Sub-committee confirmed as part of the University-UOGFT contract.
4. Set of schematic drawings for an expanded library facility completed.
5. Library Lecture Series initiated.
6. Small newsletter, Library Leaks, published.
7. Self-study done for WASC visit.
8. Vertical file service for clippings, maps, and other ephemera, with a subject approach available through the card catalog, established.
9. Display of recently processed items initiated
10. New display rack of publications concerning themes of current interest set up.
11. New section of oversized books established.
12. Training system for library science practicum students in reference organized.
13. Serials department in existence for one year.

FY 1975-76:

1. Operational budget reduced by 41 %; library acquisitions budget cut by 78 %; vacant positions frozen.
2. Four grants for a total of $ 20,378 received from U.S. Department of Education Title II and other funding sources.
3. Statistics of Library Collections, 1952-1975 compiled.

1979:

1. Completed addition to the library building, that provided space for three audiovisual classrooms and a central control room.
2. Established Federal Government Documents Depository section for selected Federal government publications.

FY 1981-82:

Curriculum Resources Center (CRC) materials transferred from the College of Education to LR.

FY 1982-83:

1. Library Advisory Committee, composed of members representing each college / unit constituted.
2. An IBM PC acquired to connect operations with the Computer Center.
3. New interlibrary loan policies established.
4. Learning Assistance Services Division began pilot operation, but soon discontinued.

FY 1983-84:

1. Two major annotated bibliographies compiled by

Documents Librarian: (1) bibliography on the Vietnamese Conflict, 1961-1971; (2) bibliography on crime in the United States.

2. One AV room converted into a Listening Laboratory after the demise of the Learning Assistance Services Division.
3. One Reference Librarian assigned 12 hours per week to provide service to CALS faculty.
4. A Dialog training seminar provided; seven faculty members received training in Dialog search skills; CALS researchers began to use Dialog services.
5. CRC collections moved back to Building B.

FY 1984-85:

1. Library Collection Development Policy / Guidelines approved.
2. Dialog search services began.
3. Set of government documents cross-reference cards purchased and filed in the main catalog.
4. Documents Librarian compiled four annotated bibliographies pertaining to (1) alcoholism; (2) space, rockets, and satellites; (3) Alzheimer's disease, and (4) stress.

FY 1985-86:

1. Clipping files from the reference department integrated into the files in the documents department.
2. CALS publication archive collection organized.
3. Special file of materials relating to Guam / Marianas

agricultural research and development created.

4. Video Communications Center funded.
5. List of new acquisitions initiated.
6. One Mackintosh computer acquired for library applications.
7. Card catalog and shelf-list of AV collections initiated.

FY 1986-87:

1. Program review of Learning Resources completed.
2. Book orders to Baker and Taylor computerized.
3. Foreign Media Index using computer operation developed.
4. CALS collection development / maintenance policy drafted.
5. Video Communication Center dedicated.

FY 1987-88:

1. WASC report made favorable comments and recommendations.
2. Bibliofile acquired for cataloging use.
3. Part of LR procedures manual revised.
4. Inventory of library materials completed.
5. Account with UMI for delivery of needed journal articles established.

FY 1988-89:

1. Series of five bibliographic instruction lessons developed.
2. In August, 1989, Computer Center invited to provide two sessions of a workshop on an introduction to computers.

3. In August, 1989, process of acquiring an integrated automation system began.
4. In September, 1989, two LR academic units reorganized into one; Ad Hoc committees established to coordinate various tasks.
5. In September, 1989, publication of the Learning Resources Newsletter resumed.
6. In September, 1989, Guam Library Association re-vitalized after being inactive for many years. Several LR faculty members were instrumental in the GLA revival.
7. By the end of the fiscal year, budget for the renovation and expansion of the LR building approved by the Legislature.

FY 1989-90:

1. Construction plan for the renovation and expansion of the LR building finalized.
2. Several LR faculty initiated and were working on the plan for the Guam Governor's Conference on Library and Information Services.
3. Three CD-ROM reference products acquired.
4. Systems analysis to review systems requirements for LR automation project completed.
5. In Fall, 1989, RFI sent to about 15 library automation vendors.
6. In November, 1989, consultant hired to assess the

needs of its automation project. Later, CARL system recommended.

7. Dynix and the NOTIS systems visited the campus and demonstrated their systems.
8. On August 24, 1990, ground-breaking of the renovation and expansion project took place. Government Joseph F. Ada, Congressman Ben G. Blaz, and many other Guam dignitaries participated in the ceremony.

FY 1990-91:

1. Construction of the LR building proceeded on schedule.
2. Cash donation of $10,000 from a Chinese philanthropist received; the donation was designated to be used for acquiring works on China.
3. Membership in OCLC acquired.
4. Eight PC's and one laser printer acquired; several of them provided to the public for wordprocessing and other purposes.
5. In 1991-92 budget, one staff to support the operation of computers requested.
6. Draft of a comprehensive LR policies and procedures manual compiled.
7. On October 20, 1990, conducted Island Infofiesta, which brought together and demonstrated the use of all available electronic information sources on Guam.
8. Later, the Island Infofiesta won two certificates of nomination by Governor Joseph F. Ada and by the 21st

Guam Legislature for the 4th Annual Magnificent Seven.

9. On November 15-17, 1990, Guam Governor's Conference on Library and Information Services held at the Pacific Star Hotel. LR was the backbone unit in conducting and implementing GGCLIS.
10. In January, 1991, Systems Librarian temporarily hired.
11. On February 9-20, 1991, users' survey conducted; about 400 users responded to the survey.
12. On February 26-28, 1991, sponsored and hosted the initial meeting of the Pacific Islands Association of Libraries and Archives. LR was the instrumental unit in the formation of PIALA.
13. On April 25, 1991, two sessions of a mailmerging workshop provided to the public.
14. In May, 1991, workshop on using computer technology to provide service, controlling confrontation in providing public services, and introducing the Library Bill of Rights provided to LR staff members.
15. In June, 1991, request of $100,000 for the first installment payment for an automation system approved.
16. Following the approval of the budget, RFP for the automation system drafted and issued.
17. On July 9-13, 1991, two LR faculty members serving on Guam Delegation participated the White House Conference on Library and Information Services held in Washington, D. C.

18. On July 23-26, 1991, workshop to train faculty and staff to use OCLC for cataloging, interlibrary loans, and reference search provided.

19. On July 27, 1991, a half-day demonstration on OCLC functions provided to the public.

20. Dynix and NOTIS systems invited to the campus for final review.

21. In September, 1991, Dynix system selected; contract negotiation followed.

22. Beginning with September, 1991, LR hours extended to Sunday afternoon.

FY 1991-92:

1. N. J. Goetfridt won the University of Guam faculty Award for Excellence in Research for his Indigenous Navigation and Voyaging in the Pacific....

2. R. Lujan-Perez selected as the University of Guam Employee of the 1st Quarter, Category II, 1992 for her creation of a computerized database containing over 3,000 titles of LR instructional media.

3. C. R. Redila won a nomination award from Governor J. F. Ada for the Magnificent Seven of 1992 in recognizing his outstanding service.

4. Cataloging department began training and use of OCLC for cataloging.

5. In December, 1991, Typhoon Yuri caused water leakage to the floors in the Government Documents, Serials,

and Instructional Media sections, and the public reading area.

6. On January 6-9, 1992, four-day Library Technology Update held; 82 library professionals from the Pacific region attended.
7. On January 18, 1992, panel discussion entitled "The Bill of Rights: 200 Years and Counting" in commemoration of the Bill of Rights Bicentennial sponsored.
8. In February, 1992, Systems Librarian position officially approved and filled.
9. In March, 1992, contract with the DEC to acquire the Dynix / DEC system for the automation project signed. Total costs, $ 390,584, to be paid off in three years.
10. In March, 1992, construction of the new addition to the LR building completed. Many LR sections moved into the new wing while the Government Documents and the Instructional Media sections moved to the Health Science Building temporarily.
11. Renovation of the old library quarters proceeded.
12. In Spring, 1992, study on the classification scheme of library technician positions initiated in order to meet the personnel needs of recent rapid changes in information technologies and library services.
13. In June, 1992, DEC hardware and Dynix software received. Main hardware included 1 CPU, 1 system printer, and 28 terminals.

14. On July 13-17, 1992, ADAP (Agricultural Development in the American Pacific) Workshop on agricultural information conducted.

15. On August 28, 1992, Super Typhoon Omar battered Guam. Water leaked from the roof to the second floor and then to the ground. About 75 % of the carpet in the newly constructed wing was wet. The estimated total damage of Omar to LR, $ 80,000.

16. On September 3, 1992, mini faculty retreat held; issues of personnel, automation, physical facilities, collection development, research, etc. discussed.

17. On September 13-17, 1992, Instructional Media department moved back to the renovated quarters after the renovation was completed.

FY 1992-93:

1. OCEAN (Online Catalog Easy Access Network), the Dynix integrated library system installed.

2. Operational budget originally allocated to LR cut by 43 %; total amount, $ 280,844.

3. Information File to collect peripheral materials created.

4. Pursuant to the LR request, a computer operator position established in the Computer Center to support LR operation.

5. Policies and Procedures Manual completed.

6. On October 26-28, 1992, OCLC trainer in LR to provide

updated training to faculty and staff on using OCLC for reference searching, cataloging, and ILLs.

7. CATME software introduced for searching OCLC records and and import them to OCEAN.
8. On November 18-25, 1992, Dynix trainer in LR to train faculty and staff on the operation of OCEAN.
9. In December, 1992, patron file of students created by converting the available data at the University.
10. Bar-coding began for those returned books circulated during Fall, 1992.
11. On January 4-22, 1993, entire new building occupied; CALS collection and Government Documents moved back from Dorm I and the Health Science Building respectively, and each department relocated to designated space. New building consists of 54,201 square feet of floor space, which includes 26,201 square feet of new addition and 28,000 square feet of renovated area. Total construction costs, $7,302,880.
12. In January, 1993, cataloging, circulation, and public access modules of the automation system became functional. System naming contest launched; J. Swaddell named it OCEAN and won the first prize.
13. In March, 1993, Curriculum Resources Center (CRC) moved back to LR.
14. In April, 1993, another Dynix system training provided to related faculty and staff on the operation of serials

and acquisitions modules.

15. In May, 1993, Library Technician Standards and Specifications completed; it aimed at reclassifying the library technician positions from two to four categories.

16. In June, 1993, reserve module and remote log in capability to OCEAN became functional.

17. In Summer, 1993, shipment of new furniture received. Total cost, $ 296,132.

18. On August 8, 1993, an earthquake of 8.2 Richter magnitude hit Guam; it rocked almost all LR's books onto floors, and caused LR an estimated $ 38,150 of damages, excluding those for repairing the damages to the building.

19. In September, 1993.

    (a) Faculty retreat held at the Onward Agana Beach Hotel; detailed Open House plan, future direction of the automation system, and others discussed.

    (b) PKHarmony file transfer software fully functional; it is used to assist to capture records from OCLC and import them into OCEAN.

    (c) Installation of media catalog retrieval and graphic system.

20. At the end of the fiscal year, the Library Science program administered by the College of Education moved to LR.

FY 1993-94:

1. Faculty involved in the University self-study to be presented to WASC.
2. On October 7, 1993, "Celebration of Growth and Vision," official open house held for the newly occupied building and a dedication of the newly installed automation system.
3. In October, 1993, multimedia system, PC, for media production installed.
4. In November, 1993, data of the information file entered into OCEAN. The file includes newspaper clippings, peripheral materials, publications related to local and regional interests, and other works not normally cataloged.
5. In December, 1993, workshop on LitePro offered; OCEAN linked with the Colleague system for verifying the status of student enrollment.
6. On December 23, 1993, Staff Development Day held at the Pacific Star Hotel.
7. On January 23, 1994, LC Subject Headings loaded into OCEAN.
8. In February, 1994, (a) grounds beautification project surrounding the LR building launched; it included landscaping, and planting trees, flowers, and grass; (b) workshops on MS-DOS and Windows offered.
9. On February 7, 1994, based on the proposal made by LR, Civil Service Commission Director recommended to

Governor Joseph F. Ada to create the Library Technician III position for island libraries in order to meet the needs of technological advancement.

10. On March 1, 1994 during the Charter Week, Regents R. E. Guedon, L. P. Weber; President J. C. Salas; and Dean F. S. Cruz each planted a tree in front of the LR building.
11. On March 8, 1994, over 5,000 school students and other Charter Day guests visited LR. They were amazed at seeing LR new facilities and computer systems.
12. On March 10, 21, and 22, 1994, L. Lewisson from Dynix offered a post-installation training to selected LR faculty and staff.
13. Lewisson presented LR a plaque commemorating the outstanding relationship between Dynix and LR. J. C. Salas, President; R. Rose-Crossley, Vice President; and LR faculty and staff participated in the presentation.
14. In March, 1994, (a) workshop on Spreadsheets presented, and (b) multimedia system, Mac, for media production and multimedia system, Mac, for students installed.
15. Also in March, 1994, directly access to Internet for reference services functional. Internet node at the University established in January, 1994.
16. In April, 1994, PC system for media loans installed; OCEAN's acquisitions module used to store desiderata file.

17. On April 21, 1994, Joleen Leon Guerrero from Oceanview High School assigned as LR Dean for Island Leadership Day.

18. On April 30, 1994, the OCEAN cpu moved from the LR site to the Computer Center for centralized operation.

19. In May, 1994, A. Cohen and R. Castro awarded $ 10,000 from Guam Humanities Council for the Micronesian Humanities Resources Project.

20. In June, 1994, two Internet terminals installed for public access.

21. In July, 1994, OCEAN became accessible off-island via TELNET.

22. On August 3-5, 1994, workshop on DOS, Windows, and WordPerfect provided to LR staff by B. L. Millhoff. Skills serving the public also presented.

23. In August, a cumulative LR report completed.

24. In Summer, 1994, Aldus Persuasion acquired for developing slides and other presentation materials.

25. During the year, consulting services provided to Guam Territorial Library for organizing Federal government documents, position classification and descriptions, and proposal writing; and to Guam Community College for library automation.

26. At the end of the year, 95% of serials holding data entered into OCEAN.

Essential Statistics

Compiled below are twelve tables of LR essential statistics:

- Table I, Budget, 1975-1994 (data).
- Table II, Budget, 1975-1994 (in histogram).
- Table IIIa, b, c, Budget Distribution, 1975, 1986, 1994 (in pie charts).
- Table IV, Collections, 1953-1994 (data).
- Table V, Collections, 1968-1994 (in bar charts).
- Table VI, Services, 1974-1994 (data).
- Table VII, Services, 1982-1994 (in bar charts).
- Table VIII, Enrollment, Budget, Collections, and Services, 1986-1994 (data).
- Table IX, Enrollment, Budget, Collections, and Services, 1986-1994 (in histogram).
- Table X, Enrollment, Budget, Collections, and Services: Results of Pearson r.

Table I

UNIVERSITY OF GUAM LEARNING RESOURCES BUDGET
1975 -- 1994

Year	Personnel $	Library Materials $	Computers & Systems $	Operational $	Total $
1975	295,643	222,129	0	51,624	569,402
1976	238,324	43,336	0	35,345	317,505
1986	495,044	137,042	0	51,729	683,815
1987	500,645	134,664	0	64,092	699,401
1988	566.924	148,110	0	56,912	771,946
1989	669,757	236,645	0	70,027	976,429
1990	709.349	200,000	30,141	56,314	995,804
1991	911,311	280,200	129,543	70,000	1,391,054
1992	1,080,552	238,594	5,000	92,166	1,416,312
1993	1,119,550	191,201	167,288	110,718	1,588,757
1994	1,213,618	187,816	78,844	96,594	1,576,872

Table II

UOG LEARNING RESOPURCES BUDGET 1975-94

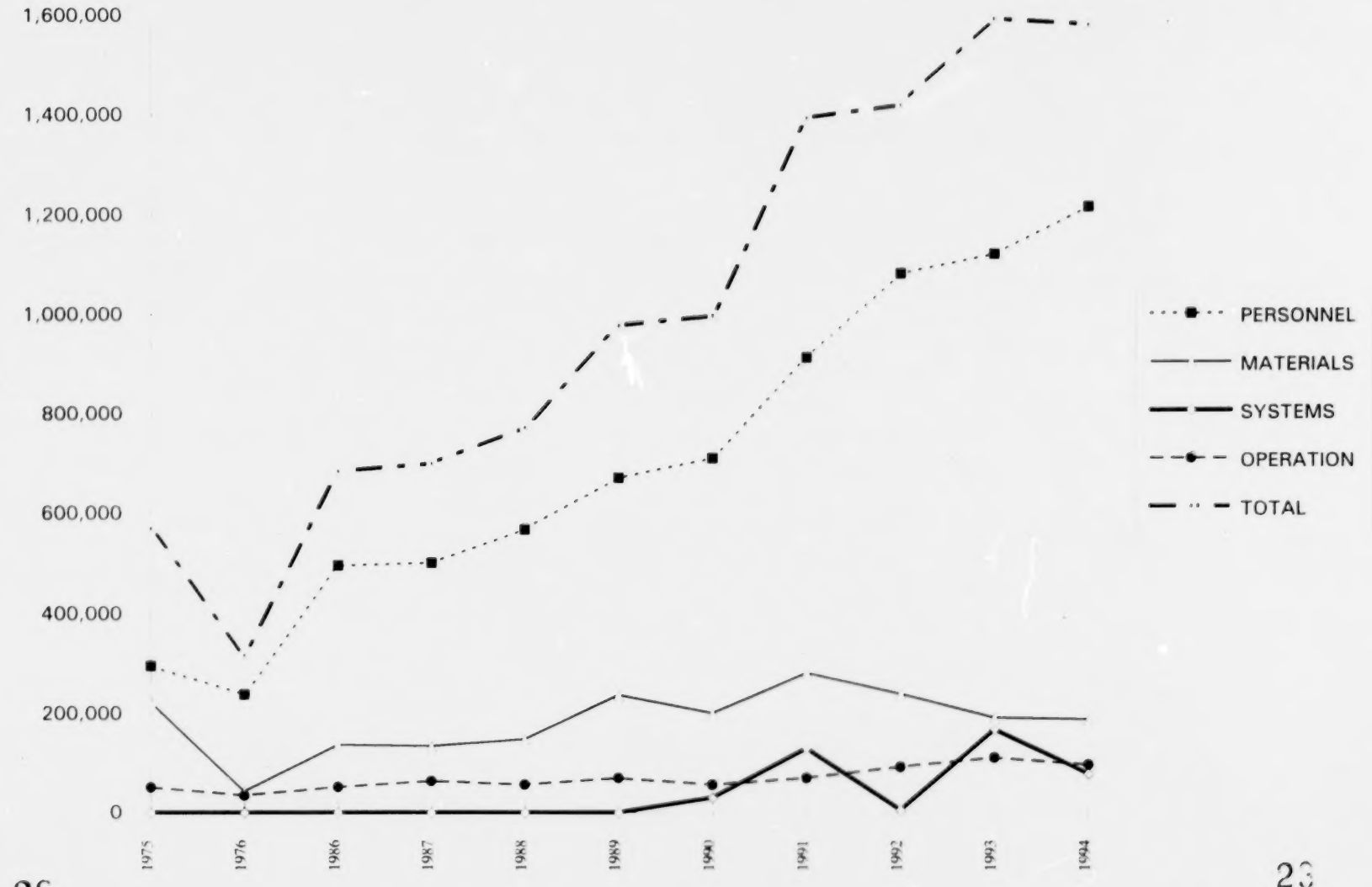

Table IIIa

UOG LEARNING RESOURCES BUDGET DISTRIBUTION 1975

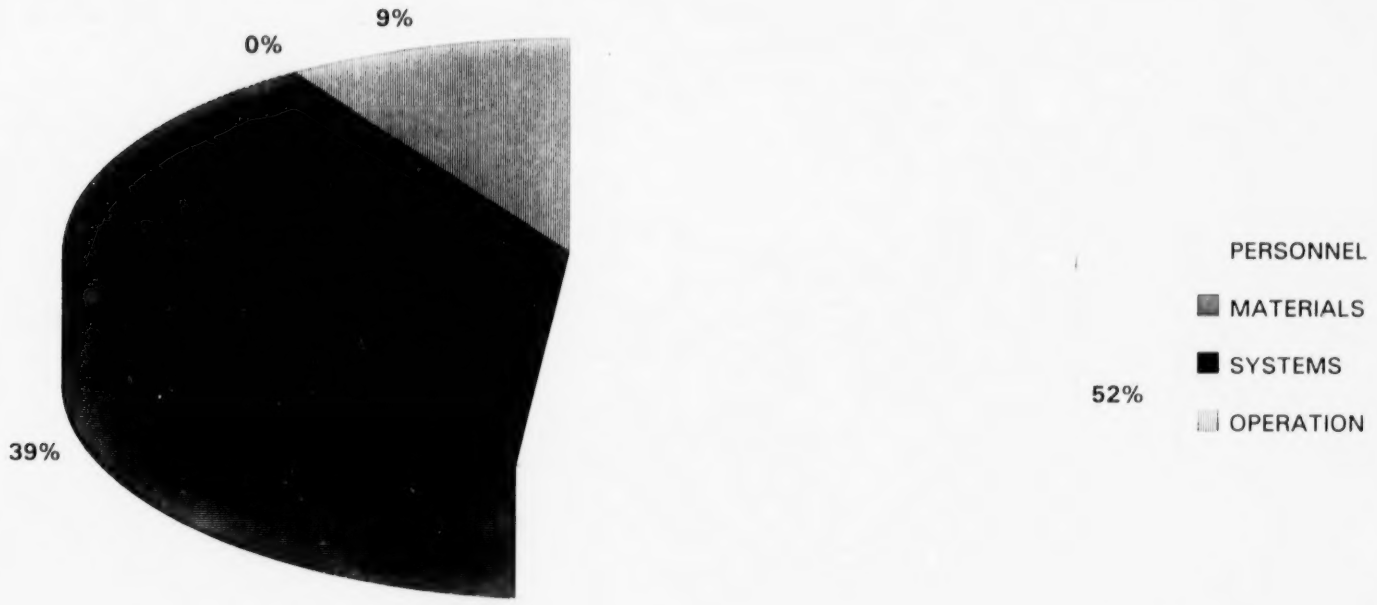

Table IIIb

UOG LEARNING RESOURCES BUDGET DISTRIBUTION 1986

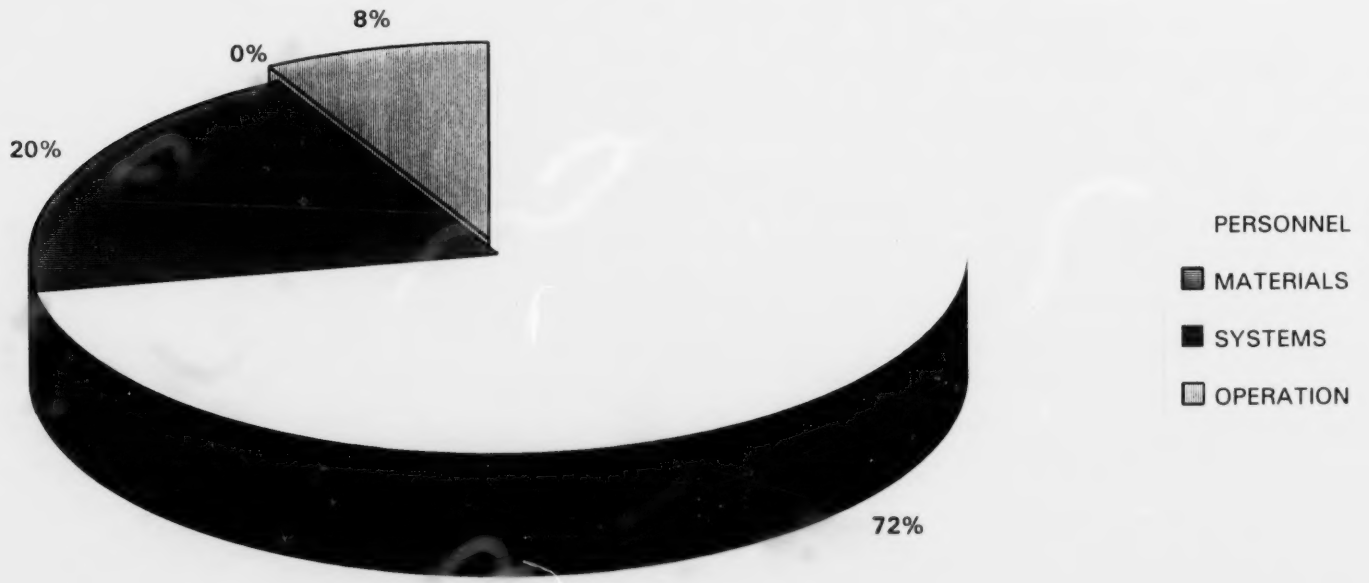

Table IIIc

UOG LEARNING RESOURCES BUDGET DISTRIBUTION 1994

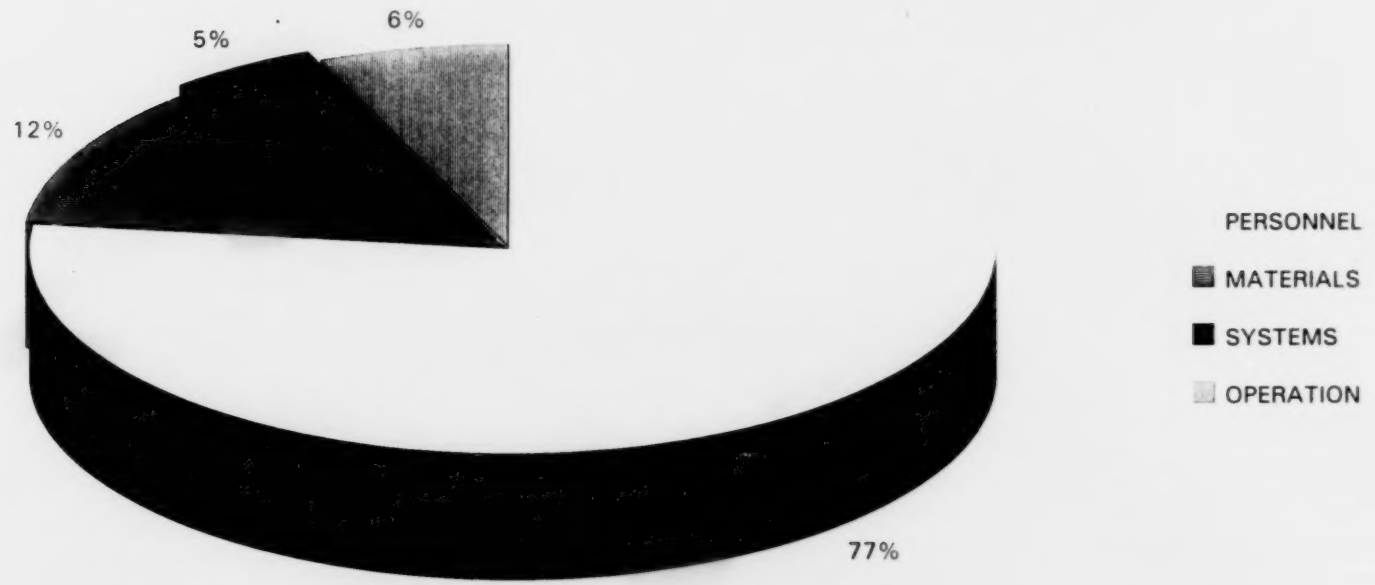

Table IV
UNIVERSITY OF GUAM LEARNING RESOURCES COLLECTIONS
1953 - 1994

Year	No. of Books		No. of Serials	AV Materials
	Volumes	Titles	(Titles)	(Items)
1953	200	--	0	0
1954	1,052	--	0	264
1957	3,616	--	53	--
1959	4,630	--	159	--
1961	9,486	--	269	--
1962	12,104	--	300	--
1963	13,071	--	--	--
1964	15,091	--	330	--
1965	29,076	--	412	--
1966	36,158	--	492	--
1967	41,000	--	536	--
1968	47,251	--	1,156	1,228
1969	52,798	--	1,210	1,249
1970	58,458	--	--	1,431
1971	82,100	--	--	--
1972	154,875	--	--	1,793
1973	247,000	--	1,500	3,726
1974	221,378	--	1,711	3,390
1975	273,112	--	--	3,930
1976	253,721	--	626	3,953
1984	269,324	--	--	2,409
1985	292,174	--	--	2,578
1986	318,506	--	--	2,926
1987	281,574	--	--	2,926
1988	304,134	--	--	3,162
1989	237,763	60,752	2,842	3,544
1990	241,491	62,382	2,950	4,117
1991	246,448	60,366	2,950	4,285
1992	254,564	60,783	3,049	4,712
1993	261,793	61,115	3,000	5,385
1994	280,603	63,248	3,014	13,384

Table V

UOG LEARNING RESOURCES COLLECTIONS, 1968-94

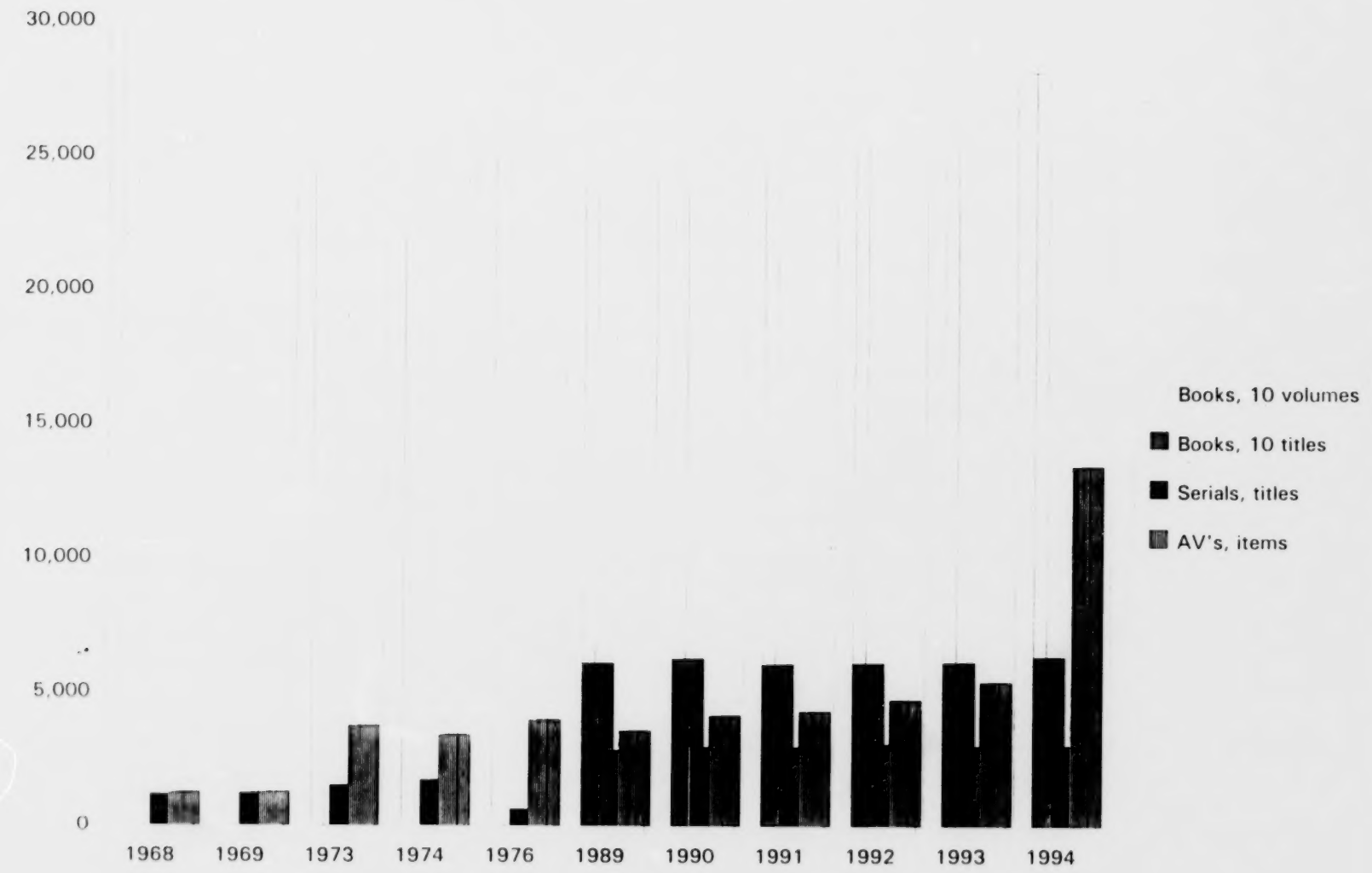

Table VI
UNIVERSITY OF GUAM LEARNING RESOURCES SERVICES
1974 - 94

Year	User Traffic (times)	No. of cards issued	No. of Reference Queries	Online Search (times)	Times of circulation	BI No. of Students	ILLs
1974	--	1,246	--	0	47,063	--	162
1982	192,172	5,171	6,194	0	43,419	209	107
1983	56,926	3,378	2,415	0	34,026	--	289
1984	--	3,920	4,749	0	31,013	--	598
1985	--	4,157	4,534	0	28,739	--	890
1986	--	3,740	5,470	270	29,806	--	900
1987	--	--	--	207	36,580	--	--
1988	--	--	5,552	190	38,498	--	103
1989	--	3,844	7,748	408	38,673	275	268
1990	--	4,254	8,689	354	36,264	2,119	65
1991	--	4,308	8,088	328	44,831	2,550	753
1992	--	4,446	8,074	140	45,397	2,996	1,638
1993	1,281,537*	5,166	10,956	84	41,994	2,604	1,508
1994	430,184**	5,943	14,574	67	57,415	2,366	1,180

BI: Bibliographic Instruction.
ILLs: Interlibrary loans.
*An estimated figures.
**Recorded by the 3M control gates at the main entrance.

Table VII

UOG LEARNING RESOURCES SERVICES 1982-94

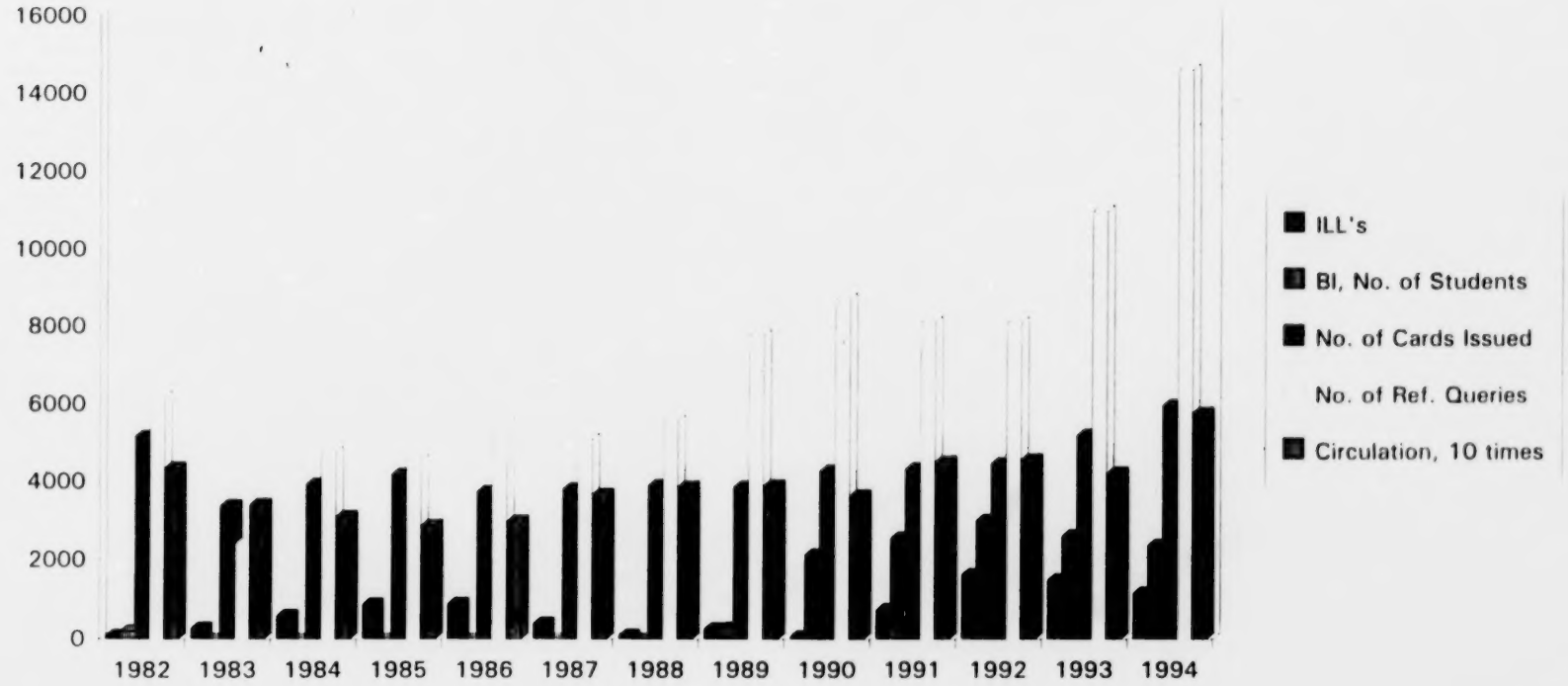

Table VIII

ENROLLMENT, BUDGET, COLLECTIONS, & SERVICES, 1986-94

	1986	1987	1988	1989	1990	1991	1992	1993	1994
Student Enrollment	2,656	2,210	2,096	2,385	2,591	2,986	3,191	3,793	4,107
Budget, $1000	684	699	772	976	996	1,391	1,416	1,589	1,577
Books, 100 Volumes	3,185	2,816	3,041	2,378	2,415	2,465	2,546	2,618	2,806
Cards Issued	3,740	3,799*	3,885*	3,844	4,254	4,308	4,446	5,166	5,943
Reference Queries	5,470	5,076*	5,552	7,784	8,689	8,088	8,074	10,956	14,574
Circulation, 10 times	2,981	3,658	3,850	3,867	3,626	4,483	4,540	4,194	5,742

* Estimated Figures

Table IX

ENROLLMENT, BUDGET, COLLECTIONS & SERVICES 1986-94

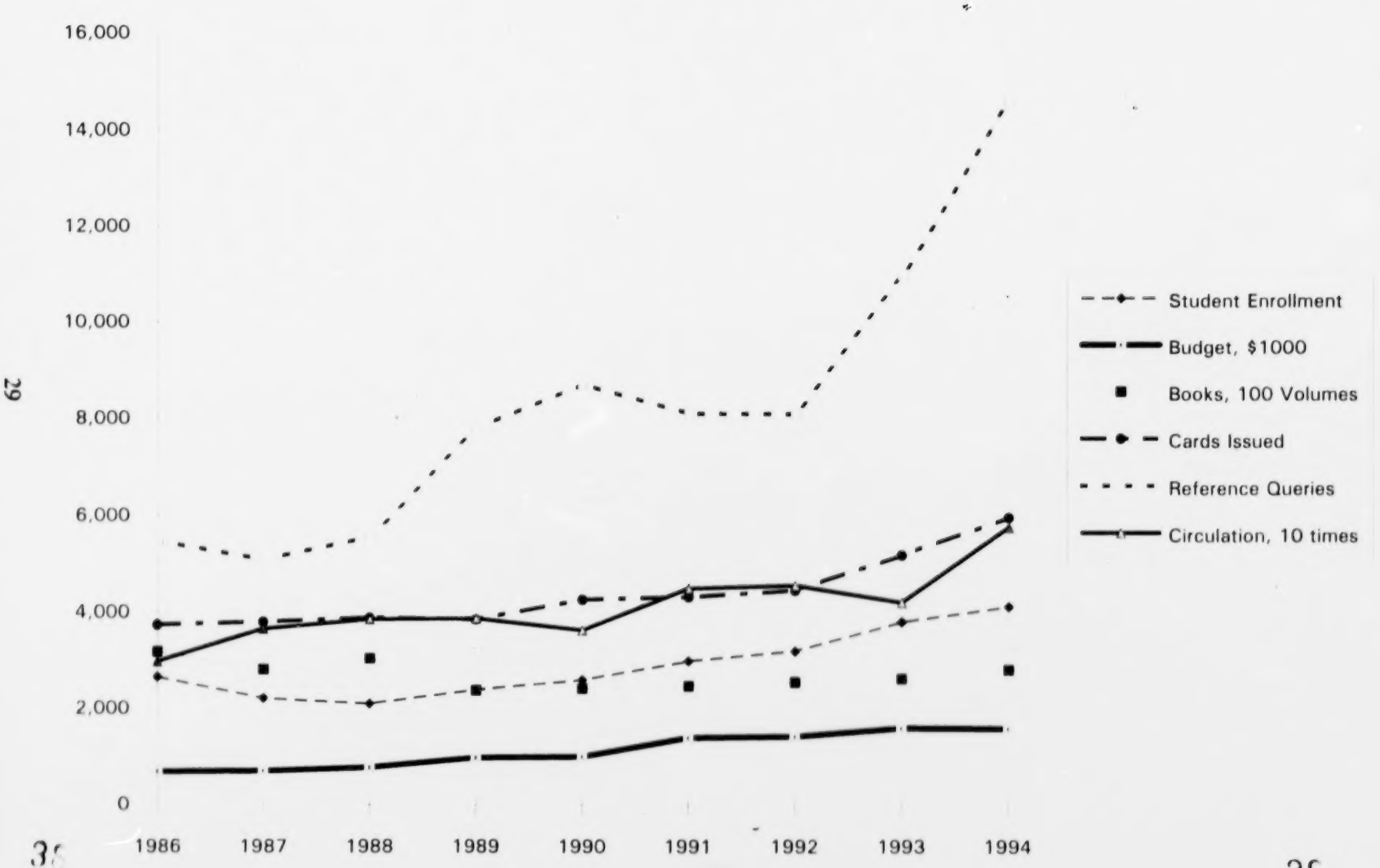

Table X
Enrollment, Budget, Collections, and Services, 1986-1994
Results of Pearson R

	Books	Budget	Cards	Circula-tion	Queries	Students
Books	--	-.4670 P=. 205	-.1370 P=. 725	-.2604 P=. 499	-.3056 P=. 424	-.1446 P=. 711
Budget	--	--	.8486* P=. 004	.8107* P=. 008	.8393* P=. 005	.8980* P=. 001
Cards	--	--	--	.8540* P=. 003	.9624* p=. 000	.9396* P=. 000
Circula-tion	--	--	--	--	.8305* P=. 006	.7549* P=. 019
Queries	--	--	--	--	--	.8987* P=. 001

Statistical Implications

The figures in table I and the graph in table II indicate that the LR total budget increased substantially from 1975 through 1994. The increase, however, was primarily due to the large increase of personnel budget. The budget for materials and operation remained on a flat level during these years. Tables IIIa, b, and c show the share of personnel budget in the total budget growing from 52 % in 1975 to 72 % in 1986 and 77 % in 1994. Note that these were only the figures of dollars allocated. When taking account of price inflation from 1975 to 1994, the real monies for materials and operation were actually reduced at least 7 % each year. Even looking at the figures only, the amount of budget for materials was

dramatically reduced in 1994 from those of 1975.

The figures in table IV and the bar charts in table V indicate that the volumes of LR collections, including books, serials, and AV materials, were not increased significantly since 1973. The reality was that the limited annual budget allocated to materials could only afford to acquire replacements for weeded titles. It was due to the addition, first time, of the number of CALS and CRC collections to the total LR statistics that these collection figures, particularly that of AV materials, show rising in 1994.

On the contrary, the figures in table VI and the bar charts in table VII demonstrate that LR overall services were increased, particularly since 1989. The number of library cards issued, reference queries, and circulation were all increased moderately. Although the total transactions of interlibrary loans were small, the rate of increase was dramatic. Except in 1982, there is no record indicating that LR has offered BI to students prior to 1989, since then the program has become highly demanded as shown in these two tables.

Table VIII and IX provide an overall picture of student enrollment at the University, LR budget, collections, and services. Table X is the results of Pearson r, which present the correlation between the various pairs of activities of the study. The results infer that those two activities indicated with an asterisk (*) were more or less correlated. In other words, the amount of LR budget the number of library cards

issued, circulation, and reference queries were correlated with the number of student enrollment at the University; the number of library cards issued, circulation, and reference queries, with the amount of LR budget; the number of circulation and reference queries, with the number of cards issued; and the number of reference queries was associated with the number of circulation.

Note that in the analysis, the amount of LR budget was the total figures, which included that for personnel. The results also indicate an overall weak association between the volume of LR books and any one of other activities of the study. The weak relationship was obviously due to the fact that the volume of books did not increase significantly although the number of other activities increased at least moderately during the years of the study.

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